

C L A I M S

1. A thermoconductive addition-curable liquid silicone rubber composition having a thermal conductivity of at least 0.3 W/(m·K) after curing which comprises
 - (A) 100 parts by weight of liquid diorganopolysiloxane that has a viscosity of 100 to 100,000 mPa·s and contains at least two silicon-bonded alkenyl groups in each molecule,
 - (B) 50 to 600 parts by weight of alumina micropowder that has an average particle size of 0.1 to 50 μm ,
 - (C) 20 to 100 parts by weight of iron oxide micropowder that has an average particle size of 0.01 to 0.5 μm ,
 - (D) 0.1 to 2.0 parts by weight of cerium oxide micropowder, cerium hydroxide micropowder, or cerium-containing heteroorganosiloxane,
 - (E) organopolysiloxane that contains at least two silicon-bonded hydrogen atoms in each molecule, wherein the component (E) content provides from 0.3 to 5 moles silicon-bonded hydrogen in component (E) per 1 mole silicon-bonded alkenyl in component (A), and
 - (F) platinum catalyst in a catalytic quantity.
2. A thermoconductive addition-curable liquid silicone rubber composition in accordance with claim 1 characterized in that the particle shape of the alumina micropowder (B) is spherical or irregular.
3. A thermoconductive addition-curable liquid silicone rubber composition in accordance with any preceding claim characterized in that the surface of the alumina micropowder (B) has been treated with a surface treatment agent.
4. A thermoconductive addition-curable liquid silicone rubber composition in accordance with claim 3 characterized in that the surface treatment agent is organoalkoxysilane, tetraalkoxysilane, or a partial hydrolysis and/or condensation product of tetraalkoxysilane.

5. A thermoconductive addition-curable liquid silicone rubber composition in accordance with any preceding claim characterized in that component (C) is in the form of a paste comprising a microdispersion of component (C) in a portion of component (A).
- 5 6. A thermoconductive addition-curable liquid silicone rubber composition in accordance with any preceding claim characterized in that component (D) is in the form of a paste comprising a microdispersion of component (D) in a portion of component (A).
- 10 7. Use of a thermoconductive addition-curable liquid silicone rubber composition according to any preceding claim in a fixing roll for electrophotographic copiers, electronic printers and facsimile machines.
- 15 8. Use in accordance with claim 7 wherein said fixing roll is a coated fixing roll comprising a fluoro-resin layer or a fluororubber layer disposed on the peripheral surface of a roll shaft, with said thermoconductive addition-curable liquid silicone rubber composition interposed between the fluoro-resin layer and the roll shaft.
- 20 9. A coated fixing roll comprising a fluoro-resin layer or a fluororubber layer disposed on the peripheral surface of a roll shaft, and a silicone rubber layer interposed between the fluoro-resin layer or the fluororubber layer and the roll shaft, which silicone rubber layer being the cured product of the thermoconductive addition-curable liquid silicone rubber composition in accordance with any one of claims 1 to 6 .